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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

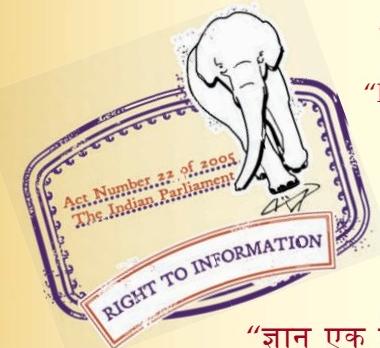
“Step Out From the Old to the New”

IS 10273 (1987): Guidelines for declaration of power and specific fuel consumption and labelling of agricultural tractors [FAD 21: Farm Implements and Machinery]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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AMENDMENT NO. 1 AUGUST 1995
TO
IS 10273 : 1987 GUIDELINES FOR DECLARATION
OF POWER AND SPECIFIC FUEL CONSUMPTION,
AND LABELLING OF AGRICULTURAL TRACTORS
(First Revision)

(Page 1, clause 2.1) — Substitute the following for the existing clause:

'2.1 The power declared by the manufacturer shall be the value obtained at the power take off of the tractor after conducting the test given under 2.2.2 of IS : 12036 - 1987 'Method of test for power take-off and belt pulley performance of agricultural tractors'.'

(Page 1, clause 2.2) — Substitute the following for the existing clause:

'2.2 The specific fuel consumption corresponding to the power obtained under 2.2.2 of IS : 12036 - 1987 shall be declared by the manufacturer.'

(FAD 32)

Reprography Unit, BIS, New Delhi, India

Indian Standard

GUIDELINES FOR DECLARATION OF POWER AND SPECIFIC FUEL CONSUMPTION, AND LABELLING OF AGRICULTURAL TRACTORS

(First Revision)

1. Scope — This standard covers guidelines for declaration of power and specific fuel consumption, and labelling of agricultural tractors.

2. Declaration of Power and Specific Fuel Consumption

2.1 Power — The power declared by the manufacturer shall be the value obtained at the power take-off of the tractor after conducting the test given under 2.2.2 of IS : 12036-1987 'Method of test for power take-off and belt pulley performance of agricultural tractors' and corrected in accordance with 7.3 of IS : 10000 (Part 4) - 1980 'Methods of tests for internal combustion engines : Part 4 Declaration of power, efficiency, fuel consumption and lubricating oil consumption' at reference atmospheric conditions given in IS : 10000 (Part 2) - 1980 'Methods of tests for internal combustion engines : Part 2 Standard reference conditions'.

2.1.1 The unit of power shall be kW (kilowatts). The addition of the equivalent metric horsepower (hp) in parentheses is permitted for a transitional period.

2.1.2 The declared power shall be the value rounded off to the nearest first decimal place with the fineness of 0.5.

2.2 Specific Fuel Consumption — The specific fuel consumption corresponding to the power obtained under 2.2.2 of IS : 12036-1987 and corrected in accordance with 8.2 of IS 10000 (Part 4) - 1980 at standard reference conditions given in IS : 10000 (Part 2) - 1980, shall be declared by the manufacturer.

2.2.1 The unit of specific fuel consumption shall be g/kWh. The addition of the equivalent g/hph in parentheses is permitted for a transitional period.

2.2.2 The declared specific fuel consumption shall be the value rounded off to the nearest first decimal place with the fineness of 0.5.

3. Labelling

3.1 A name plate of adequate size and thickness shall be affixed at a conveniently visible location on the tractor.

3.2 Amongst other details, the name plate shall include the following prominently.

Name of manufacturer and trade-mark, if any		
Make	Model	Year of manufacture
Engine serial number		Chassis serial number
Maximum PTO power* kW (hp)		Specific fuel consumption† g/kWh (g/hph)
*In accordance with 2.1. †In accordance with 2.2.		

3.3 The writing/punching on the name plate shall be legible.

Adopted 30 November 1987

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EXPLANATORY NOTE

Presently, the power of an agricultural tractor is being declared by different manufacturers in a different manner. Mostly, the engine power is being declared with SAE or DIN rating. Though the engine is the source of power in a tractor but the user utilizes the power through its various outlets, such as power take-off (PTO), drawbar and belt pulley.

With a view to ensure uniform practice for declaration of power of an agricultural tractor, this standard was first published in 1982. In this version, provision was made for declaration of engine power along with power take-off (PTO) power. It was now felt that only PTO power need be mentioned. Specific fuel consumption was also required to be stipulated along with power. On a suggestion received from the Ministry of Agriculture, Government of India, it was also considered necessary that labelling of the tractor should be stipulated for the guidance of the purchaser. The standard has, therefore, been revised to incorporate these changes.

- For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.